

CLAIMS OF AMENDMENT UNDER ARTICLE 19, PCT

[Received by International Bureau on 26, May 2005: Claims
1,7,13,20,27,33,42,43 and 44 as originally filed was amended;
5 the other claims remain unchanged.]

1. (amended) A moving picture reception/decoding device
decoding a bit stream encoded by a moving picture
encoding/transmission device using a predetermined moving
picture compression encoding method, characterized in that said
5 moving picture reception/decoding device comprises:

a control information creating unit that creates control
information for controlling the operation of said moving picture
encoding/transmission device, irrespective of
occurrence/nonoccurrence of the image quality deterioration
10 caused by transmission error; and

a control information transmitting unit that transmits said
control information to said moving picture
encoding/transmission device.

2. The moving picture reception/decoding device as defined
in claim 1 wherein said control information creating unit
creates said control information at a predetermined interval.

3. The moving picture reception/decoding device as defined
in claim 1 or 2 wherein said control information creating unit
uses a message specified by the ITU-T recommendation H.245
as said control information.

4. The moving picture reception/decoding device as defined in claim 1 or 2 wherein said control information creating unit uses videoFastUpdate commands specified by the ITU-T recommendation H.245 as said control information.

5. The moving picture reception/decoding device as defined in claim 1 or 2 wherein said control information creating unit uses a method specified by RFC3261 SIP (Session Initiation Protocol) as said control information.

6. The moving picture reception/decoding device as defined in claim 1 or 2 wherein said control information creating unit uses the INFO method specified by RFC3261 SIP as said control information.

7. (amended) A moving picture encoding/transmission device encoding video signals using a predetermined moving picture compression encoding method, transmitting a bit stream, characterized by comprising:

5 a control information receiving unit that receives control information for controlling the operation of said moving picture encoding/transmission device, said control information being created/transmitted, irrespective of occurrence/nonoccurrence of the image quality deterioration caused by transmission error;

10 a control information analyzing unit that analyzes said control information and outputs encoding control information for controlling said encoding, and

a moving picture encoding unit that executes said

encoding according to said encoding control information.

8. The moving picture encoding/transmission device as defined in claim 7 wherein said moving picture encoding unit encodes at least a part of frames in an intra-frame encoding mode according to said encoding control information.

9. The moving picture encoding/transmission device as defined in claim 7 or 8 wherein said control information analyzing unit is able to analyze a message specified by the ITU-T recommendation H.245 as said control information.

10. The moving picture encoding/transmission device as defined in claim 7 or 8 wherein said control information analyzing unit is able to analyze videoFastUpdate commands specified by the ITU-T recommendation H.245 as said control
5 information.

11. The moving picture encoding/transmission device as defined in claim 7 or 8 wherein said control information analyzing unit is able to analyze a method specified by RFC 3261 recommendation SIP as said control information.

12. The moving picture encoding/transmission device as defined in claim 7 or 8 wherein said control information analyzing unit is able to analyze the INFO method specified by RFC 3261 recommendation SIP as said control information.

13. (amended) A moving picture reception/decoding device decoding a bit stream encoded by a moving picture encoding/transmission device using a predetermined moving

picture compression encoding method, characterized by
5 comprising:

a control information creating unit that creates control
information for controlling the operation of said moving picture
encoding/transmission device, irrespective of
occurrence/nonoccurrence of the image quality deterioration
10 caused by transmission error;

a control information transmitting unit that transmits said
control information to said moving picture
encoding/transmission device; and

a transmission band judging unit that outputs a control
15 information creating command for controlling said control
information creating unit according to transmission band
information calculated from received said bit stream.

14. The moving picture reception/decoding device as defined
in claim 13 wherein said transmission band judging unit outputs
said control information creating command that instructs the
operation interval of said control information creating unit to
5 be changed according to said transmission band information and
said control information creating unit changes the interval at
which it creates said control information according to said
control information creating command.

15. The moving picture reception/decoding device as defined
in claim 13 wherein said transmission band judging unit outputs
said control information creating command that instructs the

operation of said control information creating unit to be started
5 according to said transmission band information and said
control information creating unit creates said control
information only when it receives said control information
creating command.

16. The moving picture reception/decoding device as defined
in any one of claims 13 to 15 wherein said control information
creating unit uses a message specified by the ITU-T
recommendation H.245 as said control information.

17. The moving picture reception/decoding device as defined
in any one of claims 13 to 15 wherein said control information
creating unit uses videoFastUpdate commands specified by the
ITU-T recommendation H.245 as said control information.

18. The moving picture reception/decoding device as defined
in any one of claims 13 to 15 wherein said control information
creating unit uses a method specified by RFC 3261
recommendation SIP as said control information.

19. The moving picture reception/decoding device as defined
in any one of claims 13 to 15 wherein said control information
creating unit uses the INFO method specified by RFC 3261
recommendation SIP as said control information.

20. (amended) A moving picture encoding/transmission
device encoding video signals using a predetermined moving
picture compression encoding method, and transmitting a bit
stream, characterized by comprising:

5 a control information receiving unit that receives control information for controlling the operation of said moving picture encoding/transmission device, said control information being created/transmitted, irrespective of occurrence/nonoccurrence of the image quality deterioration caused by transmission error;

10 a control information analyzing unit that analyzes said control information and outputs encoding control information for controlling said encoding;

 a moving picture encoding unit that executes said encoding according to said encoding control information; and

15 a transmission band judging unit that outputs an encoding control information creating command for controlling said control information analyzing unit according to transmission band information calculated from said transmitted bit stream.

21. The moving picture encoding/transmission device as defined in claim 20 wherein said control information analyzing unit analyzes said control information and outputs said encoding control information only when it receives said
5 encoding control information creating command.

22. The moving picture encoding/transmission device as defined in claim 20 or 21 wherein said moving picture encoding unit encodes at least a part of frames in an intra-frame encoding mode according to said encoding control information.

23. The moving picture encoding/transmission device as defined in any one of claims 20 to 22 wherein said control

information analyzing unit is able to analyze a message
specified by the ITU-T recommendation H.245 as said control
5 information.

24. The moving picture encoding/transmission device as
defined in any one of claims 20 to 22 wherein said control
information analyzing unit is able to analyze videoFastUpdate
commands specified by the ITU-T recommendation H.245 as
5 said control information.

25. The moving picture encoding/transmission device as
defined in any one of claims 20 to 22 wherein said control
information analyzing unit is able to analyze a method
specified by RFC 3261 recommendation SIP as said control
5 information.

26. The moving picture encoding/transmission device as
defined in any one of claims 20 to 22 wherein said control
information analyzing unit is able to analyze the INFO method
specified by RFC 3261 recommendation SIP as said control
5 information.

27. (amended) A gateway interconnecting networks between
which a bit stream encoded by a moving picture
encoding/transmission device using a predetermined moving
picture compression encoding method is sent/received,
5 characterized by comprising:

a control information creating unit that creates control
information for controlling the operation of said moving picture

encoding/transmission device, irrespective of
occurrence/nonoccurrence of the image quality deterioration
10 caused by transmission error; and

a control information transmitting unit that transmits said
control information to said moving picture
encoding/transmission device.

28. The gateway as defined in claim 27 wherein said control
information creating unit creates said control information at a
predetermined interval.

29. The gateway as defined in claim 27 or 28 wherein said
control information creating unit uses a message specified by
the ITU-T recommendation H.245 as said control information.

30. The gateway as defined in claim 27 or 28 wherein said
control information creating unit uses videoFastUpdate
commands specified by the ITU-T recommendation H.245 as
said control information.

31. The gateway as defined in claim 27 or 28 wherein said
control information creating unit uses a method specified by
RFC3261 recommendation SIP as said control information.

32. The gateway as defined in claim 27 or 28 wherein said
control information creating unit uses the INFO method
specified by RFC3261 recommendation SIP as said control
information.

33. (amended) A gateway interconnecting networks between
which a bit stream encoded by a moving picture

encoding/transmission device using a predetermined moving
picture compression encoding method is sent/received,
5 characterized by comprising:

a control information creating unit that creates control
information for controlling the operation of said moving picture
encoding/transmission device, irrespective of
occurrence/nonoccurrence of the image quality deterioration
10 caused by transmission error;

a control information transmitting unit that transmits said
control information to said moving picture
encoding/transmission device; and

a transmission band judging unit that outputs a control
15 information creating command for controlling said control
information creating unit according to transmission band
information calculated from received said bit stream.

34. The gateway as defined in claim 33 wherein said
transmission band judging unit outputs said control information
creating command that instructs the operation interval of said
control information creating unit to be changed according to
5 said transmission band information, and said control
information creating unit changes the interval at which it
creates said control information according to said control
information creating command.

35. The gateway as defined in claim 33 wherein said
transmission band judging unit outputs said control information

creating command that instructs the operation of said control
information creating unit to be started according to said
5 transmission band information; and

said control information creating unit creates said control
information only when it receives said control information
creating command.

36. The gateway as defined in any one of claims 33 to 35
wherein said control information creating unit uses a message
specified by the ITU-T recommendation H.245 as said control
information.

37. The gateway as defined in any one of claims 33 to 35
wherein said control information creating unit uses
videoFastUpdate commands specified by the ITU-T
recommendation H.245 as said control information.

38. The gateway as defined in any one of claims 33 to 35
wherein said control information creating unit uses a method
specified by RFC 3261 recommendation SIP as said control
information.

39. The gateway as defined in any one of claims 33 to 35
wherein said control information creating unit uses the INFO
method specified by RFC recommendation 3261 SIP as said
control information.

40. A moving picture communication system configured by
connecting the moving picture reception/decoding device as
defined in any one of claims 1 to 6 and 13 to 19, and the

moving picture encoding/transmission device as defined in any
5 one of claims 7 to 12 and 20 to 26.

41. A moving picture communication system including the
gateway as defined in any one of claims 27 to 39 and the
moving picture encoding/transmission device as defined in any
one of claims 7 to 12 and 20 to 26.

42. (amended) A moving picture communication method by a
pair of a moving picture encoding/transmission device that
encodes video signals using a predetermined moving picture
compression encoding method and transmits a bit stream, and a
5 moving picture reception/decoding device that decodes the bit
stream, comprising:

a step where said moving picture reception/decoding
device creates control information for controlling the operation
of said moving picture encoding/transmission device,
10 irrespective of occurrence/nonoccurrence of the image quality
deterioration caused by transmission error, and transmits it to
said moving picture encoding/transmission device;

a step where said moving picture encoding/transmission
device analyzes said control information, outputs encoding
15 control information for controlling said encoding, and executes
said encoding according to said encoding control information;
and

a step where said moving picture reception/decoding
device decodes said bit stream encoded by said encoding

20 according to said encoding control information.

43. (amended) A moving picture communication method by a pair of a moving picture encoding/transmission device that encodes video signals using a predetermined moving picture compression encoding method and transmits a bit stream, and a
5 moving picture reception/decoding device that decodes the bit stream, comprising:

a step where said moving picture reception/decoding device creates control information for controlling the operation of said moving picture encoding/transmission device,
10 irrespective of occurrence/nonoccurrence of the image quality deterioration caused by transmission error, and transmits it to said moving picture encoding/transmission device;

a step where said moving picture encoding/transmission device analyzes said control information, outputs encoding
15 control information for controlling said encoding, and executes said encoding according to said encoding control information; and

a step where said moving picture reception/decoding device decodes said bit stream encoded by said encoding
20 according to said encoding control information and feeds transmission band information calculated from said received bit stream back to the processing of creating control information; wherein

said moving picture reception/decoding device requests

25 an image refresh operation corresponding to the reception band.

44. (amended) A moving picture communication method by a pair of a moving picture encoding/transmission device that encodes video signals using a predetermined moving picture compression encoding method and transmits a bit stream, and a
5 moving picture reception/decoding device that decodes the bit stream, comprising:

a step where said moving picture reception/decoding device creates control information for controlling the operation of said moving picture encoding/transmission device,
10 irrespective of occurrence/nonoccurrence of the image quality deterioration caused by transmission error, and transmits it to said moving picture encoding/transmission device;

a step where said moving picture encoding/transmission device analyzes said control information and outputs encoding
15 control information for controlling said encoding;

a step where said moving picture encoding/transmission device executes said encoding according to said encoding control information and transmission band information calculated from a transmitted bit stream; and

20 a step where said moving picture reception/decoding device decodes said bit stream encoded by said encoding according to said encoding control information; wherein

said moving picture encoding/transmission device performs an image refresh operation according to control

25 information from the receiving side and the transmission band.